EXPLORATION PREVIEW
NWT - 1988

EGS 1988 - 1

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INAC, NAP
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EGS 1988-1 Exploration Preview, NWT - 1988
by geological staff, NAP Geology Division
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SLAVE PROVINCE

Gold will continue to be the main commodity sought in the Slave Province. Exploration expenditures are expected to surpass the $43 million spent in 1987. Exploration projects expected in the Slave structural province are keyed to Figure 1 (1-20).

SOUTHERN SLAVE PROVINCE
(J.A. Brophy)

It is conservatively estimated that $30 million will be spent on exploration in the southern part of the Slave (Fig. 1, 1-8), in 1988.

Yellowknife Volcanic Belt (1):

Two drill programs were recently completed in the Clan Lake area at the north end of the belt, one by Noranda Exploration Company Limited and another by Canamax Resources Inc.

To the north of Yellowknife, Halferdahl and Associates are currently drilling the PRO claims, Ranney Gold Mines Limited plan to explore the Ranney Property, which comprises 22 old claims, and Kelmet Resources Ltd. will likely continue to explore the TING-EQUINOX group.

Giant Yellowknife Mines Limited and NERCO-Con Mines Ltd. will continue to explore their properties near existing mines in the Yellowknife area.

To the south of Yellowknife, Golden Marlin Mines Ltd. will continue to search for gold-bearing shear zones beneath the waters of Yellowknife Bay.

In the turbidite basin, about 50 km east of Yellowknife, Ardic Exploration and Development Ltd. Inc. plans to drill at the Thompson-Lundmark mine and to explore other properties in the vicinity of this former gold producer.

Noranda Exploration Company Limited will assess the precious-metal potential of an ultramafic sill near Yellowknife.

Russell Lake Area (2):

Aber Resources Limited and Noranda Exploration Company Limited, the two main property holders in the Russell Lake area, are planning campaigns to drill test gold-bearing amphibolitic iron formation.

Freeport McMoRan Gold Company dropped the option taken last year on Aber's BUGOW gold discovery.

Canamax Resources Inc. may continue to work Roxwell Gold Mines Ltd.'s MOSS claims to the east of Russell Lake.Exploration may also be conducted by Asamera Inc., Kelmet Resources Ltd., Continental Pacific Resources, Viscount Resources Ltd., Hemisphere Development Corporation and Prolific Petroleum Resources Ltd.

Gordon Lake Area (3):

Exploration in this area is mainly for gold-bearing quartz veins hosted in turbidites of the Burwash Formation.

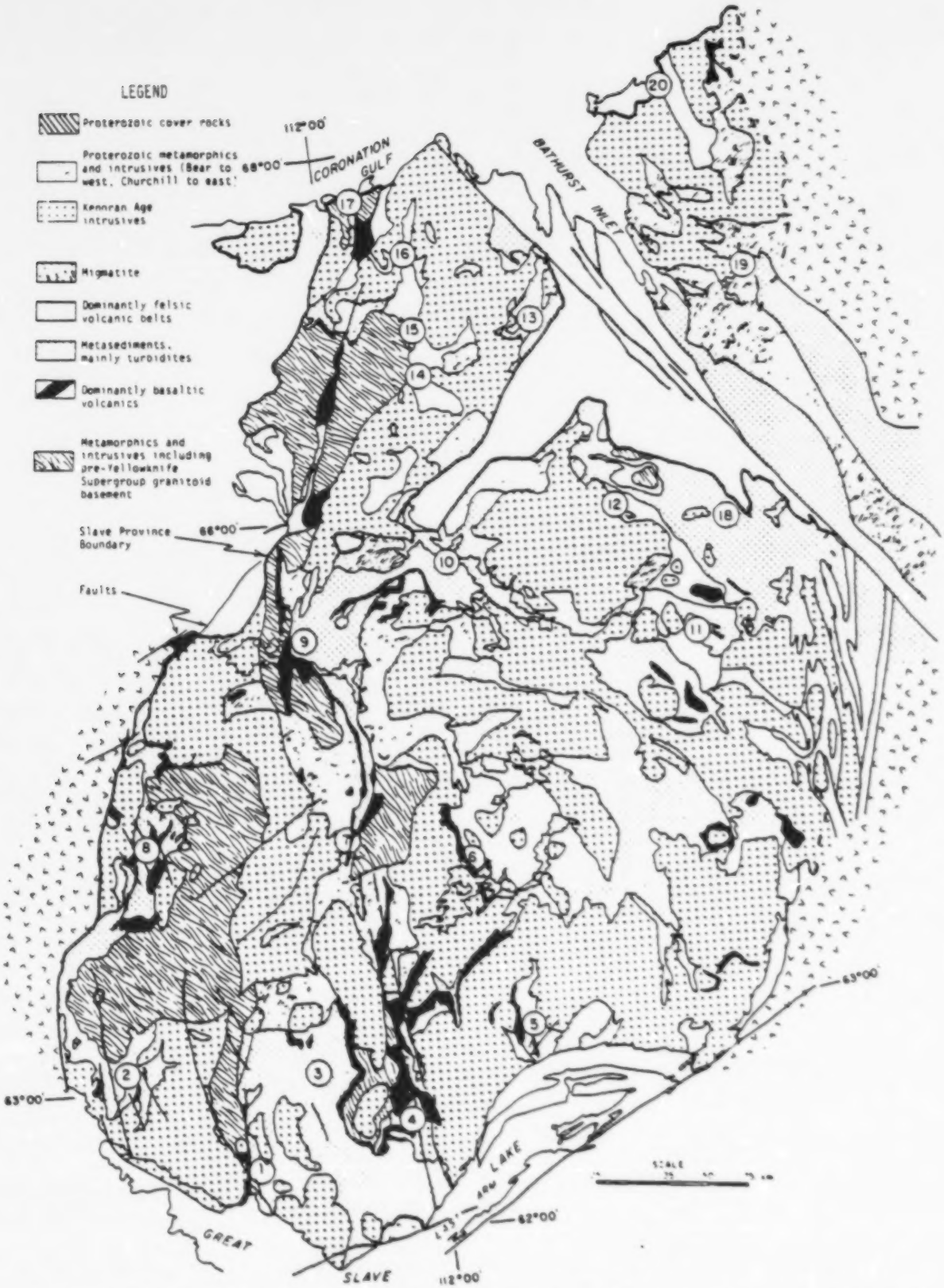

Figure 1. Summary geological map of the Archean Slave Structural Province (modified from McGlynn GSC OF. 454) showing approximately the sites of exploration expected in 1988 (1 to 20).

Pacific Trans Ocean Resources Ltd. acquired property in the north Gordon Lake area and have completed air and ground geophysical surveys. These may be followed by mapping, prospecting and drilling.

Chevron Canada Resources Ltd. plan to drill on the NIC claim in the Discovery Mine area to the west of Gordon Lake.

Westfort Petroleums Ltd. plan a $250,000 summer program to follow up anomalies obtained by a DIGHEM survey of the WT claims and adjoining property. Arrangements are being made to finance an underground development program in late 1988 or early 1989.

Gold and Silver Resources Ltd. will explore the PAT claims.

Lawrence Mining Corp. are drilling on a property at Brown Lake.

Several projects active in 1987 are likely to continue this year, including those by Giant Bay Resources Ltd. on the Kidney Pond Zone, Cruiser Minerals Ltd. on the Blackridge Deposit, Treminco Resources Ltd. on the GAB claims and Canamax Resources Ltd. on properties held in the vicinity of Discovery Mine to the west of Gordon Lake.

To the east of Gordon Lake, in the Cameron River Volcanic Belt, Durga Resources Inc. plan to do an airborne survey of their Allan Lake gold property. Other exploration projects are anticipated by BHP-Utah Mines Ltd. and Tanqueray Resources Ltd.

Sunset Lake Area (4):

Aber Resources Limited and Hemisphere Development Corporation are presently drilling the Sunrise Lake massive sulphide deposit. Encouraging drill intersections, including 7.5 m grading 15% combined zinc-lead and 630 ppm silver, suggest that this could be a significant deposit.

Ark La Tex Industries Ltd. and Silver Hart Mines Ltd. plan to explore and drill claims adjacent to the Aber-Hemisphere property.

Viscount Resources Ltd. also acquired adjoining property and plan a $500,000 program of geophysical surveying and drilling.

Noranda Exploration Company Limited plans geological mapping and drilling on property adjoining the Aber-Hemisphere property.

Other companies expected to be active in the area include Asamera Inc., Giant Yellowknife Mines Limited and Kelmet Resources Ltd.

Indian Mountain Lake Area (5):

Exploration projects are anticipated by BHP-Utah Mines Ltd. and by a joint venture comprising Asamera Inc., Giant Yellowknife Mines Limited and Kelmet Resources Ltd.

Courageous Lake-Mackay Lake Volcanic Belt (6):
This will be the area of most intense exploration. Getty Resources Ltd. and Noranda Exploration Company Limited have announced a two-year, $25 million underground exploration program to develop their jointly owned Tundra Deposit. Hosted in sheared felsic volcaniclastic rocks, the Tundra Deposit has possible reserves of 24 million tonnes grading 6.17 ppm gold, including 8.4 million tonnes grading 8.9 ppm gold. The underground program will include installation of a temporary headframe and hoist,

450 m of vertical shaft sinking, the driving of two lateral levels, underground drilling and bulk sampling.

On property adjacent to the Tundra Deposit, Gunnar Gold Inc. and Mill City Gold will spend $1 million on a program that will include 3,050 m of diamond drilling.

Goldplex Development Corporation plans to drill on property near Jax Lake and to conduct airborne geophysical surveys on claims to the northwest.

Roxwell Gold Mines Ltd. is expected to do ground geophysical surveys on the ATH claims at the south end of the volcanic belt and may conduct further exploration on the BS claims to the north.

Other companies that are expected to continue programs in the Courageous Lake area include Bow Valley Industries Ltd., Hemisphere Development Corporation, Giant Yellowknife Mines Limited, Aber Resources Limited, Parklane Technologies Inc., Colray Resources Inc. and Claude Resources Inc.

Winter Lake Area (7):

Partners Gunnar Gold Inc. and Mill City Gold will conduct airborne geophysical surveys covering 20,000 ha of property. Winter Lake Resources Ltd. will also work in this area. Pending results, diamond drilling is planned.

Indin Lake Area (8):

Neptune Resources Corp. will proceed with development of the Colomac Deposit, a large but low-grade deposit hosted in a quartz-albite sill. Despite a successful vat-leach test in 1987 on Zone 2, which has reserves of 13 million tonnes grading 2.9 ppm gold, it has been decided that conventional milling is more profitable at current gold prices. Open-pit mining is scheduled to begin in mid-1989.

Echo Bay Mines Ltd. decided not to do further work on the KIM claims, southwest of Colomac, where previous drilling outlined two significant gold deposits.

Golden Rule Resources Ltd. has acquired the Diversified-Inca deposits and plan geophysical surveying and diamond drilling.

Mahogany Minerals Resources Inc. and Treasure Island Resources Corporation completed a 1988 drill program on the Spider Lake Property at the north end of the Indin Lake Volcanic Belt. Further work is expected.

Exploration programs in the Indin Lake area also are planned by Tanqueray Resources Ltd., Lightning Creek Resources and Durga Resources Ltd.

Other programs may be carried out by some of the other claim holders in this extensively staked area, including Petromet Resources Limited, Comaplex Resources International Ltd., Stratabound Minerals Corp., Aber Resources Limited, Terra Mines Ltd., Cominco Ltd., Ghost Lake Resources Ltd., Lode Mines Ltd. and Noranda Exploration Company Limited.

NORTHERN SLAVE PROVINCE
(J.B. Seaton)

Gold is the target commodity in all projects reported for the Northern Slave Province (Fig. 1, 9-18).

Asamera Inc., Aurun Mines Ltd., Consort Energy Corp. in joint venture with Western Canadian Mining Ltd., Contwoyto Gold Fields Limited and Sirius Energy Corp. alias Argonaut Resources Ltd. may explore for gold in the Slave Province, but they have not yet (Feb. 15, 1988) made firm plans.

In February, Giant Yellowknife Mines Limited was drilling on the JOYCE, PATRICIA and TANIA claim blocks at northern Contwoyto Lake (10). They will be reconnoitering in the Regan Lake area (11) where they will drill on the ALGOOD claims. They may also drill on the TREE and TESS claim blocks at Point Lake (9).

BHP-Utah Mines Ltd. will explore claims and unstaked ground at various places in the northern Slave Province. They will drill on the TROY claims at Contwoyto Lake (10).

Cominco Ltd., in joint venture with Cogema Canada Ltd., will be working on their claims in the Contwoyto Lake area (10), both on the west and east sides of the lake. The program will probably include drilling.

Bow Valley Industries Ltd. is expecting to drill the OP claims from the ice of Contwoyto Lake (10) in the spring.

Silver Hart Mines Ltd. will drill on the FARN, KNUT property near "Pistol Lake" (13) and on the nearby TURNER and TURN claim groups. Work on other claim groups in the Wilberforce Basin south of Pistol Lake and as far as the Booth River will include mapping and prospecting.

Aber Resources Limited will be prospecting extensive claim blocks in the High Lake Volcanic Belt, between the Hood and James Rivers (15). Included are the DEN, BLACKRIDGE and BR claims.

Expeditor Resources Group Ltd., in joint venture with Mingold Resources Ltd., has planned aeromagnetic surveying, prospecting and geological mapping for the High Lake Volcanic Belt (16), where they hold the HY and TEC claims slightly north of the Hood River and a group of TEC claims 30 km south of the Hood River (14). Expeditor Resources Group will also explore their prospecting permit on the Hackett River Volcanic Belt (1).

Orofino Resources Limited will be operator for a joint venture with two other partners. The program will include geological mapping and drilling at the Arcadia property near Grays Bay, Coronation Gulf (17).

Back River Joint Venture will continue exploration in the Beechey Lake area between (12) and (18). The program will include diamond drilling. Their prospecting permits in this area have expired and been replaced by a widespread block of BRAU claims.

NORTHEASTERN SLAVE PROVINCE - BATHURST BLOCK
(W.A. Gibbins)

During May and June, Chevron Minerals Ltd.-Galveston Resources Ltd. joint venture will drill gold showings in amphibolite iron formation on the LB claims in the Tinney Hills-Hiukitak River area (19, Fig. 1). They also will be doing magnetometer and EM surveys.

Denis Collins, acting on behalf of Expeditor Resources Group Ltd., has been issued three prospecting permits in NTS 76 J/1 and BHP-Utah Mines Ltd. has been issued one permit in NTS 76 I/13 SW (19, Fig. 1). These companies are expected to do airborne geophysical surveying and reconnaissance prospecting and mapping.

Abermin Corporation hopes to drill test the recently discovered Wombat showing and other gold showings on the Hope Bay Volcanic Belt near Hope Bay (20, Fig. 1).

BEAR STRUCTURAL PROVINCE

(J.B. Seaton)

Main targets in the Bear Province are uranium, platinum-uranium, and ultramafic-mafic platinum group element showings. A summary geological map of the Bear Province (Fig. 2, A-G) shows the exploration expected in 1988.

CEGB Exploration (Canada) Ltd. will drill the "Damp" uranium prospect at Longtom Lake (A) in the spring of 1988 and continue exploration of their prospecting permits in the Longtom Lake-Zebulon Lake area.

Durga Resources Inc. signed a letter of intent to acquire all of Terra Mines Ltd.'s holdings in the Cameron River area (A). Durga Resources plan to start an open pit operation, evaluate the tailings pond for recycling possibilities and acquire the mineral rights to, and explore, 4,000 acres in the area.

Aber Resources Limited will prospect the COREHILL claims in the northern Bear Province (B) for platinum group metals and gold, and will prospect an extensive claim group in the Bathurst Lake and Salamander Lake areas (D), where the target is platinum group metals with the presumed source being mafic sills at the Proterozoic-Archean unconformity.

International Platinum Limited have planned ground geophysical surveys for the spring. A geological survey and diamond drilling is planned for their Muskox Intrusion property (C), which includes the OX claims. Work is expected at two places. The target is platinum group metals.

Equinox Resources Ltd. will explore their Muskox Intrusion properties for platinum group metals (C) in a program that will include diamond drilling. Claims include the VAL, SPEE, RIM, BRIGE, YOKE and REEF groups.

East Arm of Great Slave Lake:
(W.A. Gibbins)

Hecla Mining Company of Canada Ltd.-Highwood Resources Ltd. were drill testing the Lake Zone in part of the Blatchford Lake Complex (E) (February-March) for yttrium, rare earth elements, tantalum and niobium. In Southern Canada, they will be testing milling and metallurgical processes on bulk samples from the beryllium-rich T Zone.

Rapparee Resources Ltd. is currently (February, 1988) drilling on the Outpost Island (F), the site of a former gold-copper-tungsten producer.

Comaplex Resources International Ltd.-Kelmet Resources Ltd. will prospect several thousand hectares of Simpson Island (G) and the surrounding area.

MAIN GEOLOGICAL DIVISIONS

(Pal)	Paleozoic cover.	APHEBIAN	
	HADRYNIAN		
R	RAE GROUP and Coronation Sills.	GBB	Great Bear Volcano-Plutonic Complex: includes the McTavish Supergroup volcanics (Hoffman, 1978) and plutons of the Great Bear Batholith.
	NEOHELIKIAN		
Nv	COPPERMINE RIVER GROUP: basalt, sandstone, siltstone.	H	Hepburn Metamorphic-Plutonic Belt: includes the Akaitcho Group and some metamorphosed rocks of the Epworth and Snare Groups.
	PALEOHELIKIAN		
Ho DI	DISMAL LAKES GROUP: dolomite overlying red mudstone, sandstone and black shale.	EA	East Arm Subprovince.
		G	Goulburn Group.
	HORNBY BAY GROUP: sandstone, siltstone, shale, dolomite, conglomerate.	E	Epworth Group.
		Sna	Snare Group.
		(C)	CHURCHILL STRUCTURAL PROVINCE, PROTEROZOIC AND ARCHEAN.
		(S)	SLAVE STRUCTURAL PROVINCE, ARCHEAN.

Figure 2. Summary geological map of the Proterozoic Bear Structural Province (modified from McGlynn GSC OF. 454) showing approximately the sites of exploration expected in 1988 (A to F).

CHURCHILL PROVINCE WEST OF KEEWATIN
(W.A. Gibbins)

Nonacho Basin:

The Nonacho Basin could become a focus of exploration for Coronation Hill-type deposits (uranium-precious metals), but no definite plans to work in this area have been announced.

Churchill Province Igneous-Metamorphic Complex:

J. Doucette plans to prospect in the vicinity of the O'Connor Lake mine (i, Fig. 3).

Enexco International Limited will map and sample nickel-copper-PGE showings at Rutledge Lake (ii, Fig. 3).

The Stony Rapids Joint Venture operated by Trigg, Woollett, Olson Consulting Ltd. staked the WIN and WIG claims to protect mafic and ultramafic rocks near Thye Lake (v, Fig. 3) (75 A/2,7), Opescal Lake (iv, Fig. 3) (75 A/2) and Scott Lake (iii, Fig. 3) (75 A/4) and are planning follow-up prospecting and sampling.

Prospectors Bill Kizan and Lloyd Anderson will explore their claims at Thye Lake (v, Fig. 3) and Opescal Lake (iv, Fig. 3).

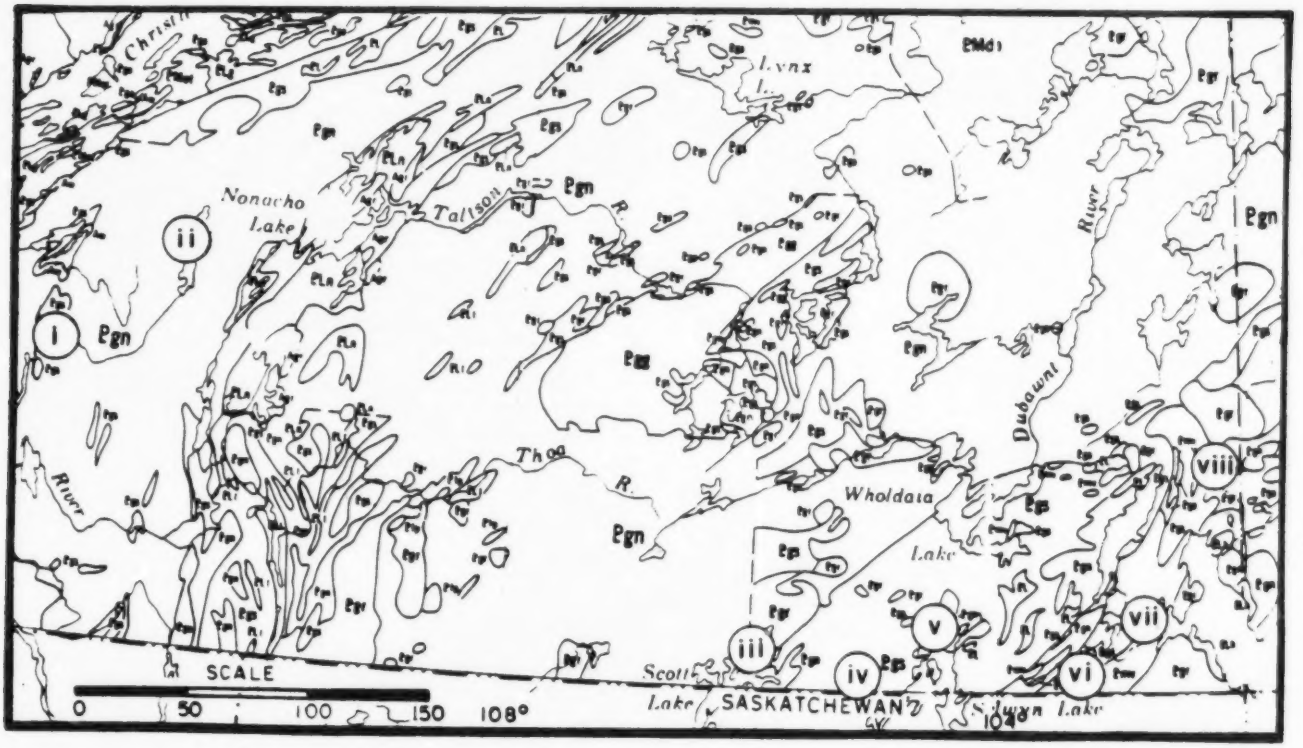

Figure 3. Summary geological map (from GSC map 30-63) showing mineral exploration in the southeast Mackenzie (Churchill Province west of the Keewatin) (i to viii).

Athabaska Gold Ltd.-SMD Mining Corp. will explore for gold on the ESK and ENN claims near McClintock Lake (vi, Fig. 3) (65 D/3,4), north of the Saskatchewan border. The Black Lake Fault Zone extends into this area.

Comaplex Resources International Ltd. will explore their claims and prospecting permits in the Snowbird Lake-Kasba Lake area (vii, Fig. 3) (65 D/2,7) by prospecting and reconnaissance surveying.

H. Vuori will continue prospecting and sampling the HUB claim near Rochon Lake (viii, Fig. 3) (65 D/16).

ARCTIC ISLANDS REGION
(W.A. Gibbins)

Cominco Ltd. will be doing some surface drilling near the Polaris Mine on Little Cornwallis Island (I, Fig. 4).

Nanisivik Mines Ltd. will continue to drill test areas near the Nanisivik Mine, northern Baffin Island (II, Fig. 4).

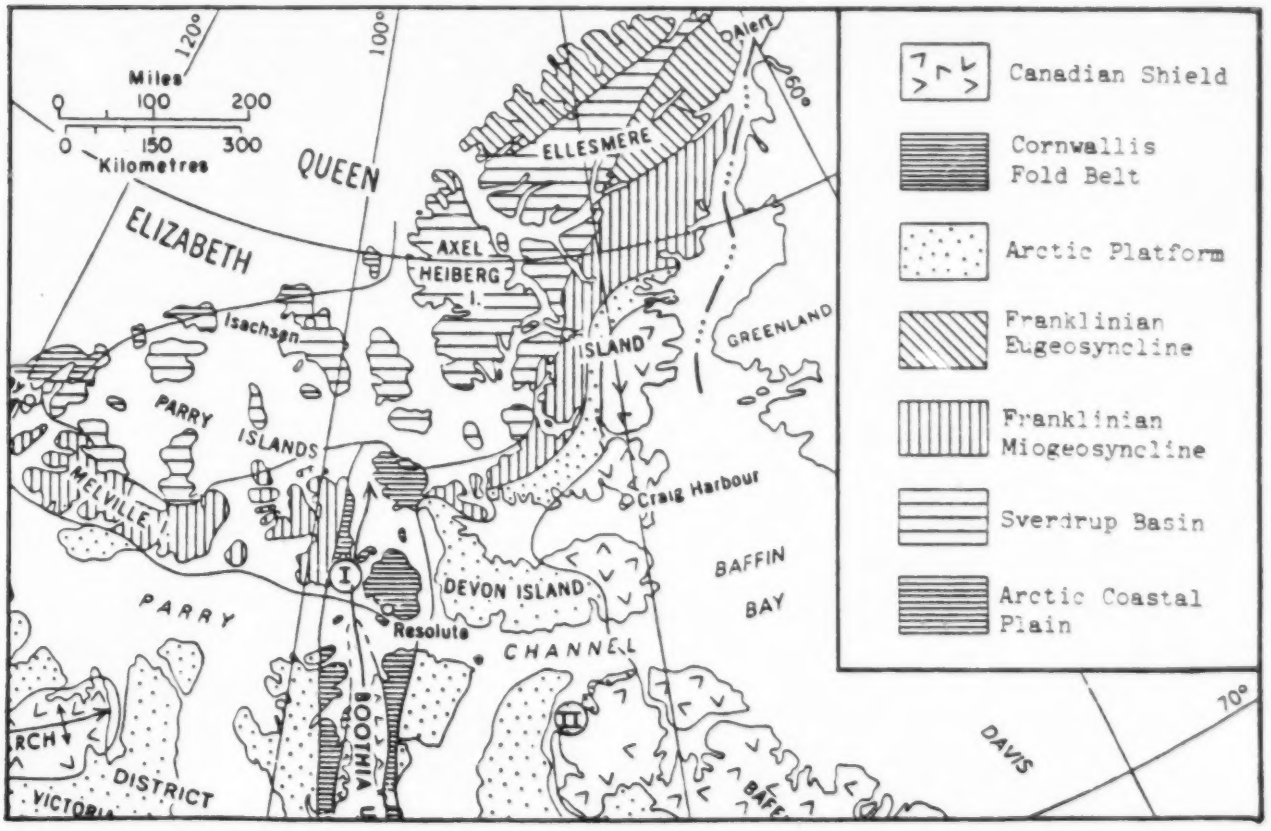

Figure 4. Geological map of the northern part of the Arctic Islands (from Fig. x-1, Geol. and Econ. Mins. Can.) showing sites of expected 1988 exploration (I - Polaris and II - Nanisivik).

KEEWATIN
(J.L. Griep)

A dramatic increase in exploration activity in the Keewatin is indicated by the fact that 35 prospecting permits were issued in February, 1988, bringing the total number of permits in the district to 64. Exploration will remain focused on the Kaminak Belt southwest of Rankin Inlet and several Archean inliers in the vicinity of Baker Lake.

Numbers in the text refer to Fig. 5, and unless otherwise indicated, properties will be examined for their gold potential.

Claude Resources Inc. expects to conduct mapping, prospecting and geophysical ground surveys on permits near Nueltin Lake (1).

Stratabound Minerals Corp. Ltd. will perform mapping, prospecting, sampling and geophysical surveys of permits obtained by them and Ardic Exploration and Development Ltd. near Ameto Lake (2).

Borealis Exploration Ltd. plans to continue underground exploration of the Fat Lake Zone (10) by deepening the underground workings to the 50 m level and by driving a number of crosscuts to adjacent veins that have been outlined on surface. The 3,000 t bulk sample mined in 1987 is scheduled to be milled during the summer. Diamond drilling, detailed mapping and channel sampling of a number of gold showings in permits in the Tavani area (10) and near Kaminak Lake (17) are also planned. The potential of Aphebian conglomerates in the Padlei area (3) will be evaluated by mapping and sampling. Claims near Rankin Inlet (14) will be mapped and sampled for their PGM potential.

Dejour Mines Ltd., in joint venture with Noble Peak Resources Ltd., will test a number of gold showings in the Turquetil Lake area (4) with a 2,500 m diamond drill program. An airborne EM survey is also planned.

BHP-Utah Mines Ltd. has acquired two permits north of Maguse Lake (5) and has planned mapping, prospecting and geochemical surveys.

Sunmist Energy '86 Inc. will continue exploration of the Eric Lake prospect in the Maguse Lake area (6). Diamond drilling (4,500 m) and detailed follow-up of airborne survey results by till sampling and geophysics is anticipated.

Similar work is proposed by Dickstone Copper Mines Ltd. for their two permits (7) in the Wallace River area.

Placer Dome Inc. contemplates grassroots exploration: mapping, prospecting and geochemical surveys of four permit areas, west of Dawson Inlet (8).

Canadian Nickel Co. Ltd. will continue its Igloo Project in the Wilson Bay area (11) with a 1,000 m drill program and detailed sampling and geophysics of selected targets. Claims in the Dawson Inlet area (9) will also be mapped and sampled.

Faraway Gold Mines Ltd. has optioned the Borealis's Pistol Bay claims (13) and will commence 3,000 m of diamond drilling on selected targets. Detailed mapping and channel sampling in the Whale Cove area (12) are also planned.

Comaplex Resources International Ltd. and Asamera Minerals Corp. will undertake 2,500 m of drilling at Rankin Inlet (15) to determine the platinum metals potential of the former North Rankin nickel-copper mine. Asamera will also conduct grassroots

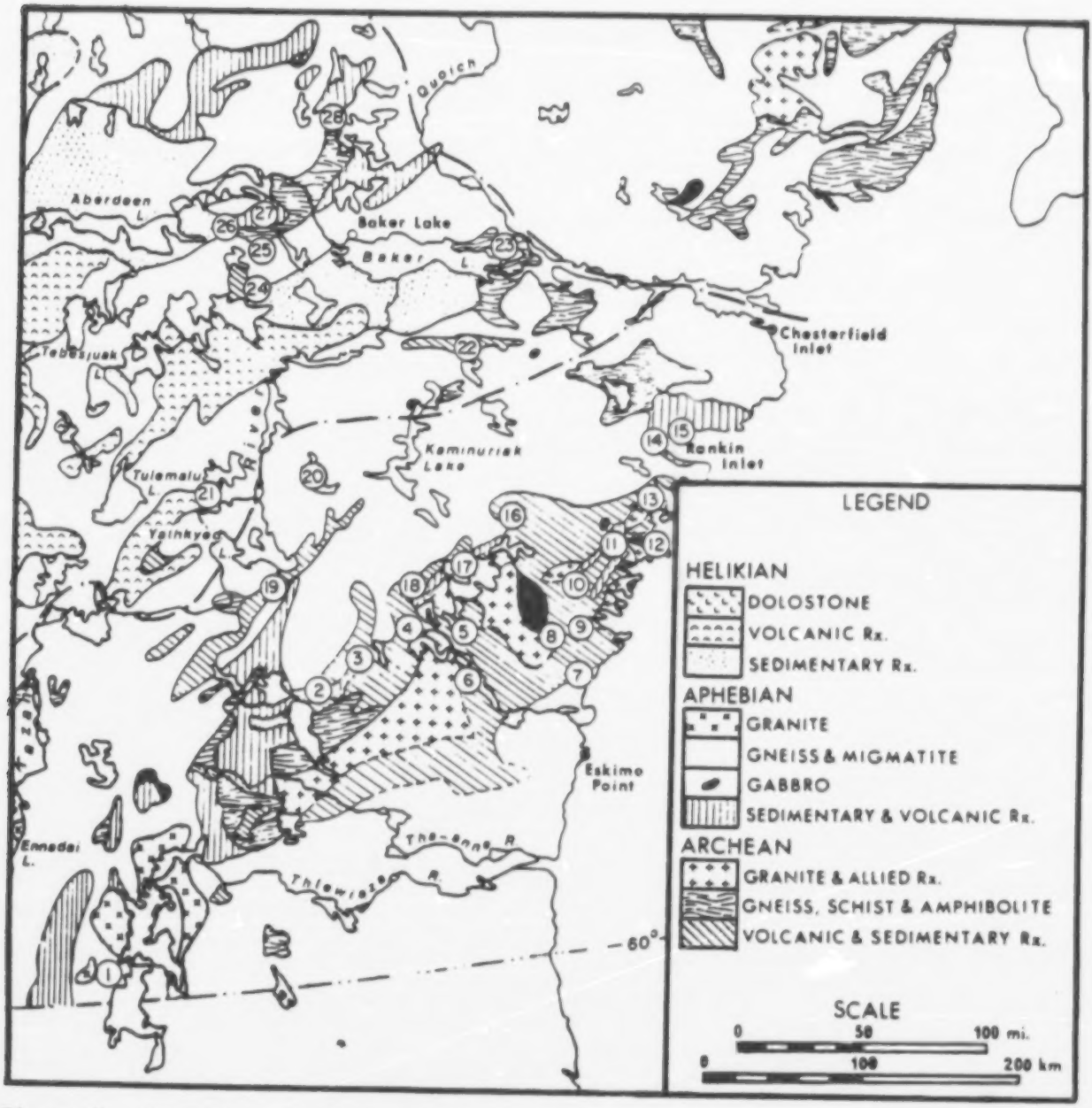

Figure 5. Summary geological map of the Keewatin District (Archean and Proterozoic Churchill Structural Province) showing approximately the sites of exploration expected in 1988 (1-28).

exploration on three permits north of Carr Lake (18). The company also operates the Meadowbank (28) Joint Venture with Comaplex north of Baker Lake and will test a number of airborne conductors with ground geophysics, till sampling and mapping.

Noble Peak Resources Ltd. will continue exploration in the Happy Lake area (16) with 10,000 m of drilling slated for 1988. Mapping, ground geophysical and geochemical surveys will be used to test airborne results obtained previously. Additional airborne EM surveying is also proposed.

Homestake Mineral Development Co. Ltd. may carry out ground geophysics and mapping of their SY claims near Yathkyed Lake (19). Additional mapping and sampling of permits at Ferguson Lake (20) also may be undertaken.

Norgold Ltd., of Australia, plan to examine three permits north of Yathkyed Lake (21) and three permits northeast of Princess Mary Lake (24), in view of similarities in the geological setting to that of U-Au-PGM mineralization at Coronation Hill in Australia.

Comaplex Resources International Ltd. in joint venture with Asamera Minerals Corp. will operate projects in the McQuoid Lake area (22) and at the east end of Baker Lake (23). Both programs will include detailed mapping, prospecting, sampling and ground geophysics. In addition, an airborne EM survey is planned for McQuoid Lake. Comaplex Resources has acquired five prospecting permits in the McQuoid Lake area and six prospecting permits in the Gibson Lake area.

Pamorex Minerals Inc. will conduct 1,000 m of diamond drilling on the SAM claims near Judge Sissons Lake (25).

Urangesellschaft Canada Ltd. has embarked on feasibility studies of the Kiggavik uranium deposit (26). Exploration for uranium continues on the Sissons-Schultz South Project, where, in joint venture with PNC, 3,000 m of diamond drilling will test a number of geophysical targets.

PNC Exploration Co. Ltd. will continue exploration for uranium south of Schultz Lake (27) and plans to drill 1,000 m on selected targets. Mapping, geophysics and geochemistry are also planned.

NWT GEOLOGY DIVISION PROJECTS

District Geologists will continue to monitor mineral exploration in their assigned Districts. Ko Griep in the Keewatin; John Brophy the Cordillera (mainland NWT west of 120^{o}) and the southern half of the Slave Structural Province; Jim Seaton the Bear Structural Province and the northern part of the Slave Province; and Walter Gibbins the Arctic Islands, the East Arm of Great Slave Lake, the Bathurst Block (northeastern part of the Slave Province east of Bathurst Inlet) and the Churchill Province in the Mackenzie District. Expected exploration is keyed to maps (Fig. 1-4) showing these subdivisions.

Staff Geologist Carol Ellis will monitor activity of producing mines and Project Geologist Valerie Jackson will continue detailed mapping in the Russell Lake area and 1:30,000 scale mapping in the southern portion of the Kathawachaga Lake area (76 L) (north of 10, Fig. 1).

In addition, Brophy will continue studies of turbidite hosted quartz veins. Seaton will carry on mapping at the east end of the Ingraham Trail (mainly around 3, Fig. 1). Gibbins will continue studies of ultramafic rocks, particularly as this relates to platinum group elements and carvingstone.

Joint projects conducted by students (summer employees, contractors or research associates) include:

(1) Detailed studies of the Yellowknife Volcanic Belt (1, Fig. 1) by H. Falck, G. Potts and Professor J.A. Donaldson (Carleton University).

(2) Detailed studies of the Yellowknife Volcanic Belt (1, Fig. 1) stratigraphy and structure, Professor H. Helmstaedt (Queens University).

(3) Mapping in the Beniah Lake area (50 km north of 4, Fig. 1), D. Roach and Professor W.K. Fyson (Ottawa University).

(4) Geochronological studies in the Slave Structural Province, C. Issachson and Professor S. Bowring (Washington University of St. Louis).

(5) Quaternary studies along the Arctic Coast, Paulatuk to Spence Bay, D. Kerr and Professor N. Rutter (University of Alberta).

Mineral Development Agreement projects currently approved include those listed in the following tables:

Table 1 - Regional Geology Subprogram, 1:30,000-1:50,000 Mapping:

Area	NTS Map Ref.*	Project Leader/ Liaison Officer(s)	Purpose/Products
Lower Hood-James River	76 N 10	-------/ Jackson	Document the geology on area with potential for iron formation hosted gold deposits. Produce 1:50,000 scale maps. Contribute to 1:250,000 scale map of 76 N.
Carp Lake-Tundra	85 P 5	-------/ Brophy-Padgham	Detailed mapping of supracrustal rocks with potential for auriferous quartz veins and volcanogenic gold and base metal-silver deposits. Produce 1:50,000 and contribute to 1:250,000 scale maps of 85 P.
Hope Bay	76 O 12	-------/ Gibbins	Detailed mapping of volcanic belts and investigation of their base and precious metal potential. Produce 1:50,000 geological maps. Contribute to 1:250,000 geological maps of 76 O and 77 A, S 1/2.
Mistake Bay-Pistol Bay	55 K 15	-------/ Griep	Detailed mapping of volcanic belts and investigation of their precious metal potential. Produce 1:50,000 geological maps. Contribute to 1:250,000 geological maps of 55K.
Central-North Baffin	37 F 14	-------/ Gibbins	Map supracrustal belts and investigate potential for mineral deposits associated with mafic/ ultramafic sequences. Produce 1:50,000 scale geological maps.

* Approximate area of project shown in Figure 6.

Table 2 - Mineral Deposit Subprogram, Stratigraphic-Structural Economic Studies:

Indin Lake	86 B 6	Dr. J Morgan/ Padgham-Brophy	Determine stratigraphic and structural relations of various types of gold deposit (e.g.: Colomac, Lex-Indin, Kim, Cass, etc.) to the enclosing rocks to develop models for these deposits that will assist exploration and development.
Yellowknife	85 J 3	Dr. D. Atkinson/ Padgham	Relate Yellowknife type shear zone hosted gold deposits to the structure and stratigraphy and develop models for these deposits that will assist exploration and development.

Figure 6. Sketch showing geological provinces in NWT with numbers to show where various Canada-NWT Mineral Development Agreement projects are to take place. Many MDA projects cover large areas and hence cannot be indexed to the map.

Table 3 - Contract Projects:

Area	NTS Map Ref.	Contractors	Purpose/Products
Anialik River	76 M/11 11	A. Abrahams Prof. E.D. Spooner	Determine the parameters of quartz vein gold deposit control for Anialik type deposits to develop models for these deposits that will assist exploration and development.
Gordon Lake	85 I/14, P/2 4	T. Stokes Prof. M. Zentilli	Relate turbidite hosted auriferous quartz veins in the Gordon Lake area to structure and stratigraphy and develop models for these deposits that will assist exploration and development.
Beniah Lake	85 P/8 5	D. Roach Prof. W.K. Fyson	Produce detailed maps and analysis of volcanic belts in the Beniah Lake area (85 P/8) concentrating on the mineral potential of mafic/ultramafic rock sequences.
NWT pegmatites	------- 4,A,B,C	Dr. M. Wise Prof. P. Cerny	Extend mapping and analyses of rare metal bearing pegmatites to pegmatite fields at Chantrey Inlet, Eskimo Hill (Baffin Island) and parts of eastern Slave Province.

Geological Survey of Canada MDA Geoscience projects planned for 1988 include those listed in the following tables:

Table 4 - Regional Geology Subprogram:

Area	NTS	Staff	Map Ref. No. (Figure 6)
Contwoyto-Nose Lake area	76 E	Dr. J. King	9
Beaulieu River greenstone belt	85 I/NE	-------	4
Tavani greenstone belts	55 K	Dr. S. Tella	15
Mapping and geochemistry, Baker Lake	66 A	A.N. LeCheminant J.C. Roddick	16
Mystery Island Intrusive Suite, Camsell River-Echo Bay	86 E	R.S. Hildebrand	7
Muskox Intrusion, border zone	86 J, O	W.R.A. Baragar	8
Cameron River greenstone belt	85 P/SE	M. Lambert	4

Table 5 - Mineral Deposits Subprogram:

Area	NTS	Staff	Map Ref. No. (Figure 6)
Gold metallogeny, Slave Province		C.W. Jefferson and others	
Gold metallogeny, Churchill Province		A.R. Miller and others	
South Nahanni tungsten, rare metals	95 E, F	C.W. Jefferson K.M. Dawson	1
PGE in ultramafic-mafic rocks, NWT		L. Hulbert and others	
Rare metals, Slave, Churchill, Bear Province		W.D. Sinclair and others	
Pine Point and Polaris mines		D.F. Sangster	2/13
Middle Proterozoic basins alteration, Churchill and Bear Provinces		A.R. Miller J.A. Donaldson	
Metal-stressed vegetation (Keewatin)		A.N. Rencz	

Table 6 - Exploration Geochemistry Subprogram:

Area	NTS	Staff	Map Ref. No. (Figure 6)
Gold and PGE in till, Churchill, Slave Provinces		W.B. Coker	
Gold, PGE and rare metals, Kaminak Lake	55 L	W.W. Shilts	15
Lake sediment geochemistry test, Contwoyto and Yellowknife	76 E, 85 J	E.H. Hornbrook	9/3

Table 7 - Exploration Geophysics Subprogram:

Area	NTS	Staff	Map Ref. No. (Figure 6)
Aeromagnetic gradiometer-VLF Whitehills Lake	66 A, 56 D	E.E. Ready	16
Integrated airborne geophysical surveys, Lupin, Thor Lake	76 E, 85 J	B.W. Charbonneau	9 E, Fig. 2